

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A spring-elastic measuring element ~~(1)~~ particularly for thermometers, pressure switches or manometers, comprising an arc- or screw-shaped measuring tube ~~(3)~~ connected, particularly welded at one end to a base body ~~(2)~~, and at the other end joined with a connecting leg for the measuring mechanism, wherein the connection between the measuring tube ~~(3)~~ and the base body ~~(2)~~ and/or connecting leg ~~(10)~~ is indirectly established by means of a weldable connecting element ~~(11, 12)~~; and wherein a welding seam is produced between the connecting elements and the measuring tube, extending through the connecting element up to the face area of the measuring tube.

Claim 2 (Currently Amended): The spring-elastic measuring element according to claim 1, wherein the connecting element ~~(11, 12)~~ is a flat and thin-walled single component.

Claim 3 (Canceled).

Claim 4 (Currently Amended): The spring-elastic measuring element according to claim 1, wherein the connecting elements ~~{11, 12}~~ and the measuring tube ~~{3}~~ jointly form one single piece, and are producible by widening and flanging of the measuring tube ~~{3}~~.

Claim 5 (Currently Amended): The spring-elastic measuring element according to claim 1, wherein the connecting elements ~~{11, 12}~~ are adapted to the cross section of the measuring tube ~~{3}~~ to an extent such that a protruding edge is formed, the latter extending at least in part, ~~preferably fully~~ over the periphery.

Claim 6 (Canceled).

Claim 7 (Canceled).

Claim 8 (Currently Amended): The spring-elastic measuring element according to claim 1, wherein the connecting element ~~{11, 12}~~ consists of comprises the same material as the base body ~~{2}~~ or of a welding additive material.

Claim 9 (Currently Amended): The spring-elastic measuring element according to claim 1, wherein the welding seams ~~14, 15, 16~~ are producible by laser or electron beam welding.

Claim 10 (Currently Amended): A method for producing a connection between a measuring tube ~~3~~ and a base body ~~2~~ and/or connecting leg according to claim 1, comprising the use of a weldable connecting element ~~11, 12~~ formed by widening and flanging of the measuring tube ~~3~~, or joined as an individual component with the measuring tube ~~3~~ by a welding seam, for example a laser welding or electron beam welding seam, whereby the welding seam ~~15, 16~~ is produced extending through the connecting element ~~11, 12~~ up to the face areas of the measuring tube ~~3~~, and whereby the protruding marginal zone of the connecting element ~~11, 12~~ is joined with the base body ~~2~~ or connecting leg by means of a second welding seam ~~14~~.

Claim 11 (Currently Amended): The method according to claim 10, comprising wherein two welding seams ~~14, 15, 16~~ extending extend separated from one another in terms of space.

Claim 12 (New): A spring-elastic measuring element particularly for thermometers, pressure switches or manometers, comprising an arc- or screw-shaped measuring tube connected, particularly welded at one end to a base body, and at the other end joined with a connecting leg for the measuring mechanism, wherein the connection between the measuring tube and the base body and/or connecting leg is indirectly established by means of a weldable connecting element; and wherein the connecting elements are joined in the measuring tube by welding seams, on the one hand, and with the base body or connecting leg by a second welding seam on the other.

Claim 13 (New): A spring-elastic measuring element particularly for thermometers, pressure switches or manometers, comprising an arc- or screw-shaped measuring tube connected, particularly welded at one end to a base body, and at the other end joined with a connecting leg for the measuring mechanism, wherein the connection between the measuring tube and the base body and/or connecting leg is indirectly established by means of a weldable connecting element; and wherein two welding seams separated from one another in terms of space are present.